

R.C.Patel Institute of Pharmaceutical Education & Research, Shirpur

(NBA & NAAC Accredited)

Sr. No	Instrument / Facility	Make and Model
Pharmaceutics and Quality Assurance Department		
1	Ultra centrifuge	Beckman Coulter, USA
2	Spray Dryer	Labultima, India
3	Thermal Analysis System- DSC	Mettler Toledo , Switzhzerland
4	Freeze Dryer	Vertis, USA
5	Extrusion Spheroniser	Pharmatech Umang
6	Powder Flow Tester	Brook Field
7	Rheometer	Brookfield
8	Cascade Impactor	Thermo fisher
9	Diffusion Cell Apparatus	Electro Lab
10	Rapid Mixing Granulator	Ganson
11	HPLC analysis	Agilent Technologies, Singapore
12	Particle Size Analysis	ZS 90, Malvern Instruments , UK
13	Zeta Potential Measurement	ZS 90, Malvern Instruments , UK

14	Molecular Weight Determination	ZS 90, Malvern Instruments , UK
15	Particulate Coating	Palm Glatt coater
16	High Pressure Homogenizer	Inkarp , Italy
17	Environment stability chamber	Remi motors
18	Antimicrobial testing of synthetic and herbal samples	Antibacterial and antifungal testing
19	Aseptic area (Class 10000)facility for <ul style="list-style-type: none"> • Tissue culture experiments • Cell line experiments • Sterile manufacturing 	Class 10000 aseptic room validated as FDA guidelines

Sr. No	Instrument / Facility	Make and Model
Pharmaceutical Analysis Department		
1	UV-Vis-NIR Spectrophotometer UV-2450	Shimadzu Japan
2	HPLC	LC-10 ATVP Shimadzu
3	HPTLC	Camag Switzerland
4	Gas Chromatograph	GC-17A Shimadzu
5	FT-IR	8400s Shimadzu
6	Nitrogen sample evaporator	Telcahe Analytical Instr.

Sr. No	Instrument / Facility	Make and Model
Pharmacognosy Department		
1	Flash Chromatography For separation of natural compounds	Combi flash Teledyne Isco.
2	Optical Microscope	Motic DMWB/2/223 China

Sr. No	Instrument / Facility	Make and Model
Pharmaceutical chemistry Department		
1	Computer Aided drug design laboratory (CADD) Combinatorial library design & docking, 2D & 3D – QSAR, Molecular dynamics , ligand preparation, conformational analysis, pharmacophore mapping docking ,site map, receptor grid generation	Schrodinger & V life MDS- 3.5
2.	Microwave oven (for extraction and organic reactions)	Catalyst – 2R
3.	Rota evaporator	Buchi

Sr. No	Instrument / Facility	Make and Model
Pharmacology Department		
1	Microplate spectrophotometer	USA Biotek
2	Power lab Data acquisition system	Power Lab Australia
3.	Co ₂ Incubator	Sanyo Japan
4.	Student Physiograph	Jworx, USA
5.	Plethresmometer	Ugobasily , Italy
6.	Anymaze video tracking system	IITc USA
7.	<p style="text-align: center;">Animal House as per CPCSEA rules</p> <p style="text-align: center;">Animal activities</p> <ul style="list-style-type: none"> • Anticancer activity, antiulcer activity, hepatoprotective activity, • Hypolipidemic activity, wound healing activity • aphrodisiac and antifertility activity, • Immunomodulatory activity, • Effect of drugs on cardiovascular system • Antidiabetic activity, Antihypertensive activity, • Antianxiety, antidepressant, memory enhancer, sedative hypnotic activity. • Toxicity testing • Nephroprotective and antiurolithiatic activity • Antiashtomatic activity. • Cell culture related experiments 	

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